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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/716,465	11/20/2003	Sebastien Josset	29250P-000031/US	6840	
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P.O. BOX 8910			SHEPPERD, ERIC W		
RESTON, VA	. 20195		ART UNIT PAPER NUMBER		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)		
10/716,465	JOSSET ET AL.		
Examiner	Art Unit		
ERIC W. SHEPPERD	2453		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -- for Reply

Period for Reply	
A SHORTENED STATUTIORY PERIOD FOR REPLY IS SET TO EX WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS CY. Extensions of time may be available under the provisions of 37 CFR 1.35(g). In no event, how after SX (b) (b) (INTY) from the mailing date of the communication. are some of the communication of	DMMUNICATION. ever, may a reply be timely filed SIX (6) MONTHS from the mailing date of this communication. to become ABANDONED (35 U.S.C. § 133).
Status	
1) Responsive to communication(s) filed on 05 April 2010.	
2a) This action is FINAL. 2b) ☐ This action is non-fin	al.
3) Since this application is in condition for allowance except for fo	rmal matters, prosecution as to the merits is
closed in accordance with the practice under Ex parte Quayle,	1935 C.D. 11, 453 O.G. 213.
Disposition of Claims	
4)⊠ Claim(s) 1-13 and 16-20 is/are pending in the application.	
4a) Of the above claim(s) is/are withdrawn from consider	ration.
5) Claim(s) is/are allowed.	
6)⊠ Claim(s) <u>1-13 and 16-20</u> is/are rejected.	
7) Claim(s) is/are objected to.	
8) Claim(s) are subject to restriction and/or election require	ment.
Application Papers	
9) The specification is objected to by the Examiner.	
10) The drawing(s) filed on is/are: a) accepted or b) ob	jected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held	in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the	e drawing(s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the Examiner. Note the	attached Office Action or form PTO-152.
Priority under 35 U.S.C. § 119	
12) Acknowledgment is made of a claim for foreign priority under 35	i U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:	
 Certified copies of the priority documents have been received. 	eived.
Certified copies of the priority documents have been received.	eived in Application No
 Copies of the certified copies of the priority documents h 	•
application from the International Bureau (PCT Rule 17.2	,
* See the attached detailed Office action for a list of the certified of	opies not received.
Attachment(s)	
1) Notice of References Cited (PTO-892) 4) 1 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Interview Summary (PTO-413) Paper No(s)/Mail Date
3) Information Disclosure Statement(s) (PTO/Sb/08) 5)	Notice of Informal Patert Application

U.S.	Patent and	Trade	mark	Offic
PT	OL-326 (Rev.	08-	06)

Paper No(s)/Mail Date _____

6) Other: _____.

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DETAILED ACTION

1. Claims 1-13, 16-20 are pending.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/05/2010 has been entered.

Response to Amendment

 In response the amendment filed 04/05/2010: Applicant has amended the claims, and the objections and corresponding 35 USC § 112 rejections have been withdrawn.

Response to Arguments

- Applicant's arguments filed 04/05/2010 have been fully considered but they are not persuasive.
- Applicant argues with regards to claim 1, that Jorgensen, Bloebaum and Thomas do not disclose "a terminal of said plurality of communication terminals including, a core

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associated with an operating system of said terminal and configured to store information associated with said streams of application data".

- 6. Examiner respectfully disagrees. Examiner relied upon Jorgensen to show a QoS device ("Uplink IP Flow Analyzer" Fig. 2 item 1600) including, a core associated with an operating system of said QoS device ("Source Application Packet Header Data table" Fig. 16A item 1628 data storage for application information necessitating operating system management, i.e. "Windows" Jorgensen column 46 lines 1-6) and configured to store information associated with said streams of application data (Jorgensen column 45 lines 16-18 data streams). Examiner further relied upon Bloebaum to show a QoS device as a terminal ("Mobile Terminal" Fig. 2, item 100). The motivation to combine the terminal of Bloebaum having mobile terminal QoS determination with the QoS functionality of the "Uplink IP Flow Analyzer" of Jorgensen being that it would provide greater user control over desired quality of service by allowing a terminal to specify the type of QoS versus QoS being assigned by another system.
- All other arguments presented by Applicant either re-hash or rely upon the issues addressed above, and are also not persuasive for the reasons given above.

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the Application/Control Number: 10/716,465 Art Unit: 2453

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 9. Claims 1-5, 7-10, 12-13 and 16- 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jorgensen (US 6,590,885 B1), in view of Bloebaum (US 6,535,815 B2).
- 10. As to claim 1, Jorgensen substantially discloses a system for controlling processes associated with streams of application data for a communication network including a plurality of communication stations configured to exchange data streams and connected to a plurality of communication terminals ("Client" Jorgensen Fig. 2D, item 120d-e connected to "Wireless Base Station", item 302 through "CPE Subscriber Station", item 294d-e) provided with at least one application ("The RSVP protocol can be used by a host, on behalf of an application, to request a specific QoS from the network for particular data streams or flows." Jorgensen column 45 lines 16-18), the system for controlling processes comprising:
 - a QoS device ("Uplink IP Flow Analyzer" Fig. 2 item 1600) including,
- a core associated with an operating system of said QoS device ("Source Application Packet Header Data table" Fig. 16A item 1628 data storage for application information necessitating operating system management, i.e. "Windows" Jorgensen column 46 lines 1-6) and configured to store information associated with said streams of application data (Jorgensen column 45 lines 16-18 data streams);
- a first module associated with said QoS device ("Packet Characterization"

 Jorgensen Fig. 16A, item 1604 and "Packet Classification", item 1606 and "IP-Flow

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Presentation", item 1608) and configured to

receive a message designating an application ("If the IP flow is new, control passes to module 1632 from module 1624 of the packet header identification component 1602" Jorgensen column 69 lines 34-36 and Jorgensen Fig.16A, item 1650 "Provide IP-Flow QoS-Class to Frame Scheduler"), and

deliver service data representative of at least one process associated with said designated application ("IP flow presentation component 1608 prepares and presents the IP data flow packets to flow scheduler 634" column 70 lines 19-20);

a second module associated with said QoS device ("Packet Header Identification" Jorgensen Fig. 16A, item 1602) and configured to

receive a stream of data sent by a terminal ("A stream of packets ... is received at packet header identification component 1602" Jorgensen column 68 lines 42-46),

access the core to determine the application associated with said received stream ("Packet header analysis module determines from source application packet header table the type of source application making the IP flow" Jorgensen column 69 lines 5-7), and

deliver said message to said first module based on said determined application ("If the IP flow is a new IP flow, then the identification information about the new IP flow is added to table 1626, and control passes from analysis module 1624 to module 1632 of the packet characterization component 1604" Jorgensen column 69 lines 13-17); and

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a controller associated with said QoS device ("Uplink Flow Scheduler" Jorgensen Fig. 16B, item 634) and configured to,

receive service data delivered by said first module ("the reservation request block has been ... transmitted to uplink flow scheduler from uplink flow analyzer 632" Jorgensen column 71 lines 25-29), and

deliver configuration data to enable at least one process suited to the requirements of the application associated with the received stream ("Module 1662 informs MAC uplink subframe scheduler 1666 of the reservation" Jorgensen column 71 lines 31-33) by the communication station ("In one embodiment, uplink flow scheduler 634 is physically located in wireless base station 302" Jorgensen column 70 lines 58-59) to which the *QoS device* from which said stream came is connected ("Client" Jorgensen Fig. 2D, item 120d-e *connected to* "Wireless Base Station", item 302 *through* "CPE Subscriber Station", item 294d-e).

Jorgensen fails to explicitly show a QoS device as a terminal.

Bloebaum describes a method by which a mobile terminal equipped with a GPS receiver can optimize time for estimating its current position based on one or more quality of service (QoS) parameters.

With this in mind, Bloebaum discloses a *QoS device* as a terminal ("Mobile Terminal" Fig. 2, item 100). It would have been obvious at the time the invention was made to a person having ordinary skill in the art to combine the terminal of Bloebaum having mobile terminal QoS determination with the QoS functionality of the "Uplink IP Flow Analyzer" of Jorgensen as it would provide greater user control over desired

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quality of service by allowing a terminal to specify the type of QoS versus QoS being assigned by another system.

11. As to claim 2, the above combined art substantially discloses the invention as claimed as described in claim 1, including wherein

said core includes an interface ("Microprocessor" Bloebaum Fig. 2, item 116 connected to "RAM" item 120) for real time control of the data streams associated with said at least one application ("microprocessor determines a desired quality of service (QoS)" Bloebaum column 5 lines 31-33), and

said second module is configured to access said interface to determine the application associated with said received stream ("microprocessor could automatically utilize a default QoS value, which the user has previously chosen for a particular application and stored in data memory 120" Bloebaum column 5 lines 36-40), upon receiving a data stream ("a positioning application ... request a position update from the mobile terminal" Bloebaum column 5 lines 26-29).

12. As to claim 3, the above combined art substantially discloses the invention as claimed in claim 1, including further comprising:

memory configured to store a table of correspondences between said application and said service data ("IP-Flow QoS Requirement Table" Jorgensen Fig. 16A, item 1634), wherein said first module is configured to access said memory means to determine service data stored in correspondence with said designated application, upon

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receiving a message designating an application ("in IP flow QoS requirements lookup module 1632 the QoS requirements for the application associated with the IP flow are determined. Module 1632 performs this operation by looking up the application in IP flow QoS requirement table 1634" Jorgensen column 69 lines 38-42).

13. As to claim 4, the above combined art substantially discloses the invention as claimed in claim 3, including wherein

said first module is configured to send a user via a graphical interface of the communication terminal a message requesting said service data associated with the designated application, if service data corresponding to the designated application is not stored in said memory ("Keypad 122 and display 124 provide a user interface allowing the user to interact with the mobile terminal 100" Bloebaum column 5 lines 21-22 and "microprocessor 116 may, ... prompt the user with a menu of choices related to desired positioning quality of service (QoS)" Bloebaum column 5 lines 31-33).

14. As to claim 5, the above combined art substantially discloses the invention as claimed as described in claim 3, including wherein said second module is configured to update said correspondence table based on information received from the terminal ("a default QoS value, for which the user has previously chosen for a particular application and stored in data memory" Bloebaum column 5 lines 37-40).

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15. As to claim 7, the above combined art substantially discloses the invention as claimed as described in claim 5, including wherein said information received is delivered by a graphical interface of the terminal ("To make this determination of QoS, microprocessor 116 may, ... prompt the user with a menu of choices related to desired positioning quality of service (QoS)" Bloebaum column 5 lines 31-33).

- 16. As to claim 8, the above combined art substantially discloses the invention as claimed as described in claim 1, including wherein second module is installed in a protocol stack of said core ("the information about the IP streams is communicated 'vertically' in the protocol stack model from the application layer (i.e. OSI level 7) to the PRIMMA MAC layer (i.e. OSI level 2) for bandwidth reservation and application switching purposes" Jorgensen column 22 lines 20-25).
- 17. As to claim 9, the above combined art substantially discloses the invention as claimed as described in claim 1, including wherein at least one of said communication stations includes at least one protocol stack arranged in layers, including a MAC layer, and said controller is configured to deliver configuration data for configuring said MAC layer as a function of the requirements associated with a stream to be transmitted or received, upon receiving service data ("Once the nature and QoS requirements of each IP stream are determined by other portions of the system, this information is communicated to the PRIMMA MAC layer so that the IP flows of each application can be switched to appropriate destinations in a proper priority order" Jorgenson column 22

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lines 8-12 and "Module 1662 informs MAC uplink subframe scheduler 1666 of the reservation" Jorgensen column 71 lines 31-33).

- 18. As to claim 10, the above combined art substantially discloses the invention as claimed as described in claim 1, including wherein said first module is configured to deliver to said controller service data representative of at least one process associated with streams to be received form an application installed in a remote communication terminal ("Provide IP-Flow QoS-Class to Frame Scheduler" Jorgensen Fig. 16A, item 1650 originating from "Subscriber Work-Station" Fig. 16A, item 120d).
- 19. As to claim 12, the above combined art substantially discloses the invention as claimed as described in claim 1, including wherein said first module and said controller are configured to exchange service messages containing said service data in accordance with an exchange protocol chosen from at least on of a proprietary protocol (not required), the SNMP ("simple network management protocol (SNMP)" Jorgensen column 47 lines 62-63), the XML protocol (not required), and the RSVP ("The present invention supports RSVP by providing ... recognition and support of RSVP messages, including: Path messages, Reservation (Resv), Path teardown messages, Resv teardown messages, Path error messages, Resv error messages, and Confirmation messages" Jorgenson column 43 lines 44-49).

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20. As to claim 13, the above combined art substantially discloses the invention as claimed as described in claim 1, including wherein said process is chosen from a group including at least one of quality of service ("a resource allocation means optimizing enduser quality of service (QoS)" Jorgensen column 3 lines 50-51), encryption (not required), authentication (not required), session set-up (not required), stream prioritization (not required), and stream elimination (not required).

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- 21. As to claim 16, the above combined art substantially discloses the invention as claimed as described in claim 1, including a communication station including said controller of a control system as claimed in claim 1 ("In one embodiment, the uplink flow scheduler 634 is located in wireless base station 302" Jorgensen column 70 lines 58-59).
- 22. As to claim 17, the above combined art substantially discloses the invention as claimed as described in claim 16, including the communication station taking the form of a satellite terminal ("such as, e.g., RF communication, cable RF, and satellite link, to antenna 290d of wireless base station 302" Jorgensen columns 82 lines 1-3).
- 23. As to claim 18, the above combined art substantially discloses the invention as claimed as described in claim 1, including a communication network including said plurality of communication stations ("Wireless Base Station" Jorgensen Fig. 2A, item 302 and multiple "base stations" Bloebaum Fig. 1, item 12 obvious to one of ordinary.

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skill in the art) and said plurality of communication terminals ("Client" Jorgensen Fig. 2D, item 120d-e connected to "Wireless Base Station", item 302 through "CPE Subscriber

Station", item 294d-e).

24. As to claim 19, the above combined art substantially discloses the invention as claimed as described in claim 18, including the communication network, chosen in a group including at least satellite networks and wireless networks ("such as, e.g., RF communication, cable RF, and satellite link, to antenna 290d of wireless base station

302" Jorgensen columns 82 lines 1-3).

25. As to claim 20, the above combined art discloses the invention as claimed as described in claim 1, including wherein the terminal includes a processor (Bloebaum "Microprocessor" Fig. 2 item 116),

the first module includes code segments configured to perform the functions of the first module when executed by the processor (Jorgensen column 67 lines 26-33 software/hardware modules), and

the second module includes code segments configured to perform the functions of the second module when executed by the processor (Jorgensen column 67 lines 26-33 software/hardware modules).

26.

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Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over
 Jorgensen (US 6,590,885 B1), in view of Bloebaum (US 6,535,815 B2), in view of
 Reichmeyer et al (US 6,286,038 B1).

28. As to claim 6, the above combined art substantially discloses the invention as claimed as described in claim 5 failing however to include wherein said information received is contained in a configuration file received by the terminal.

Reichmeyer describes a method of remotely configuring a network device by propagating information to the network device from a configuration server.

With this in mind, Reichmeyer discloses wherein said information received is contained in a configuration file received by the terminal ("the central configuration server 26 then propagates configuration information in the form of a ... Domain Configuration File (DCF) ... DCF may include differentiated services and QoS parameters." Reichmeyer columns 10-11 lines 54-2). It would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains to combine the remote configuration method of Reichmeyer with the system of the above combined art as it would speed up configuration by removing the necessity of reconfiguring every terminal locally upon initiation.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over
 Jorgensen (US 6,590,885 B1), in view of Bloebaum (US 6,535,815 B2), in view of Amin

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et al (US 6,854,014 B1).

30. As to claim 11, the above combined art substantially discloses the invention as claimed as described in claim 1, failing however to include wherein said controller receives an authorization delivered by a central server.

Amin describes a method of a user communicating in an IP centric distributed network that uses servicing to establish network resources for establishment of connections.

With this in mind, Amin discloses wherein said controller receives an authorization delivered by a central server ("The allied Service Application Server sends an Authorization Request message to the AAA server to authorize the service, QoS, and bandwidth requested" Amin column 14 lines 48-50 and "When the request is authorized, the Authorization Server sends the Authorization Response to the allied Service Application Server" Amin column 14 lines 56-58). It would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains to combine the authorization of Amin with the system of the above combined art as it provides the advantage of increasing control over a limited amount of resources to ensure that they are allocated as desired.

Conclusion

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Mandato (US 2002/0010771 A1), Mandato et al (US

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2002/0116545 A1) and Paul et al (US 2002/0091802 A1) are all related to QoS systems.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERIC W. SHEPPERD whose telephone number is (571)270-5654. The examiner can normally be reached on Monday - Thursday, Alt. Friday, 7:30 AM - 5PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Thomas can be reached on (571)272-6776. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/E. W. S./ Examiner, Art Unit 2453 /THUHA T. NGUYEN/ Primary Examiner, Art Unit 2453